

PROJECT: W-02953

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<u>LINE</u>	<u>STATION</u>	<u>PLAN</u>	<u>PROFILE</u>
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
GEOTECHNICAL ENGINEERING UNIT

ROADWAY  
SUBSURFACE INVESTIGATION

COUNTY CHATHAM  
PROJECT DESCRIPTION US 64 /JORDAN LAKE

INVENTORY  
(ADDENDUM)

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-02953	1	16

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT, AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
  - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

J. K. STICKNEY

C. L. SMITH

INVESTIGATED BY C. B. LITTLE

DRAWN BY C.E. BURRIS/J.K. McCLURE

CHECKED BY C. B. LITTLE

SUBMITTED BY C. B. LITTLE

DATE OCTOBER 2014



DocuSigned by:

Clinton B. Little

11/12/2014

SIGNATURE

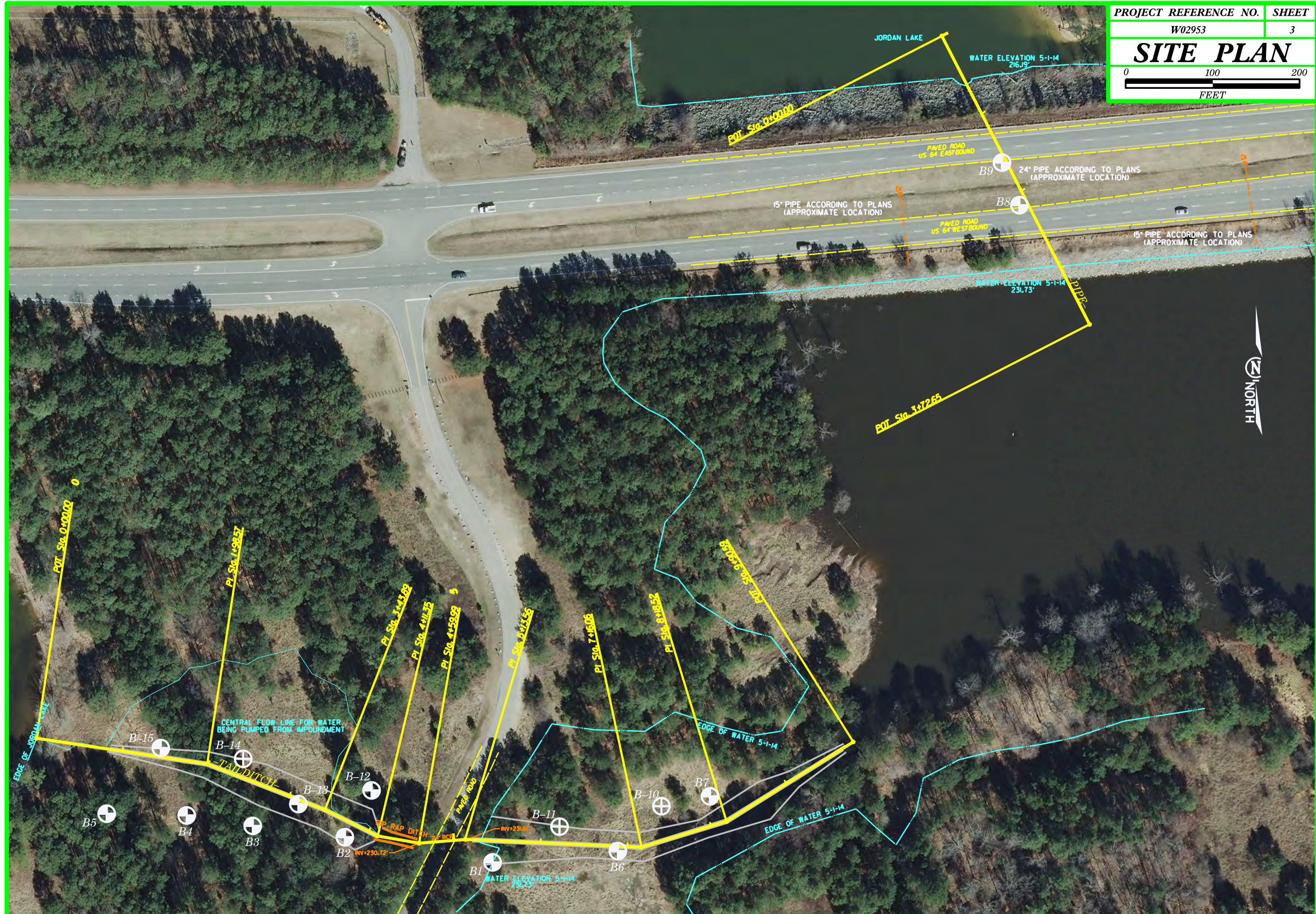
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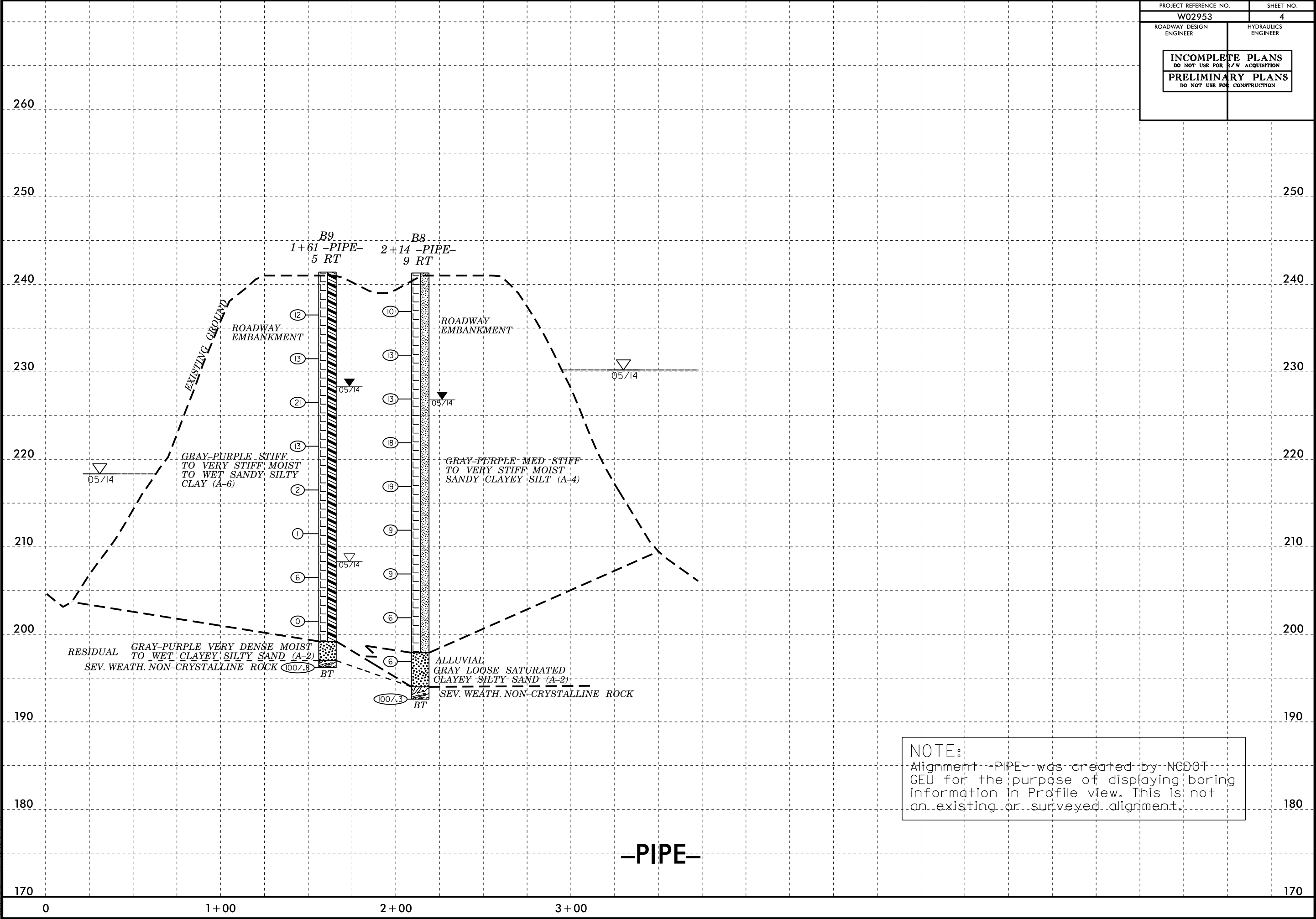




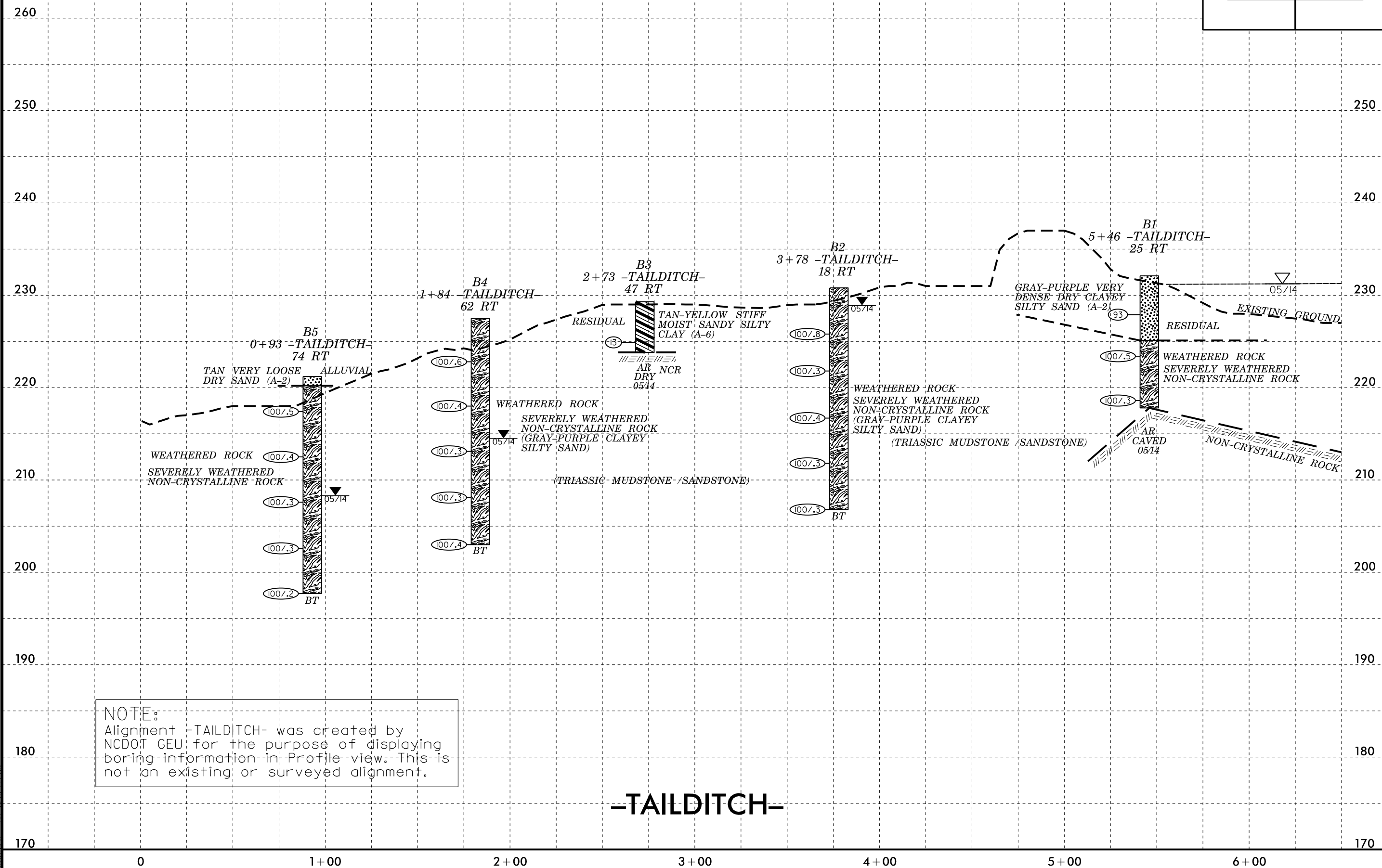


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PROJECT REFERENCE NO.		SHEET NO.	
W02953		4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



NOTE:  
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GEU for the purpose of displaying boring  
information in Profile view. This is not  
an existing or surveyed alignment.



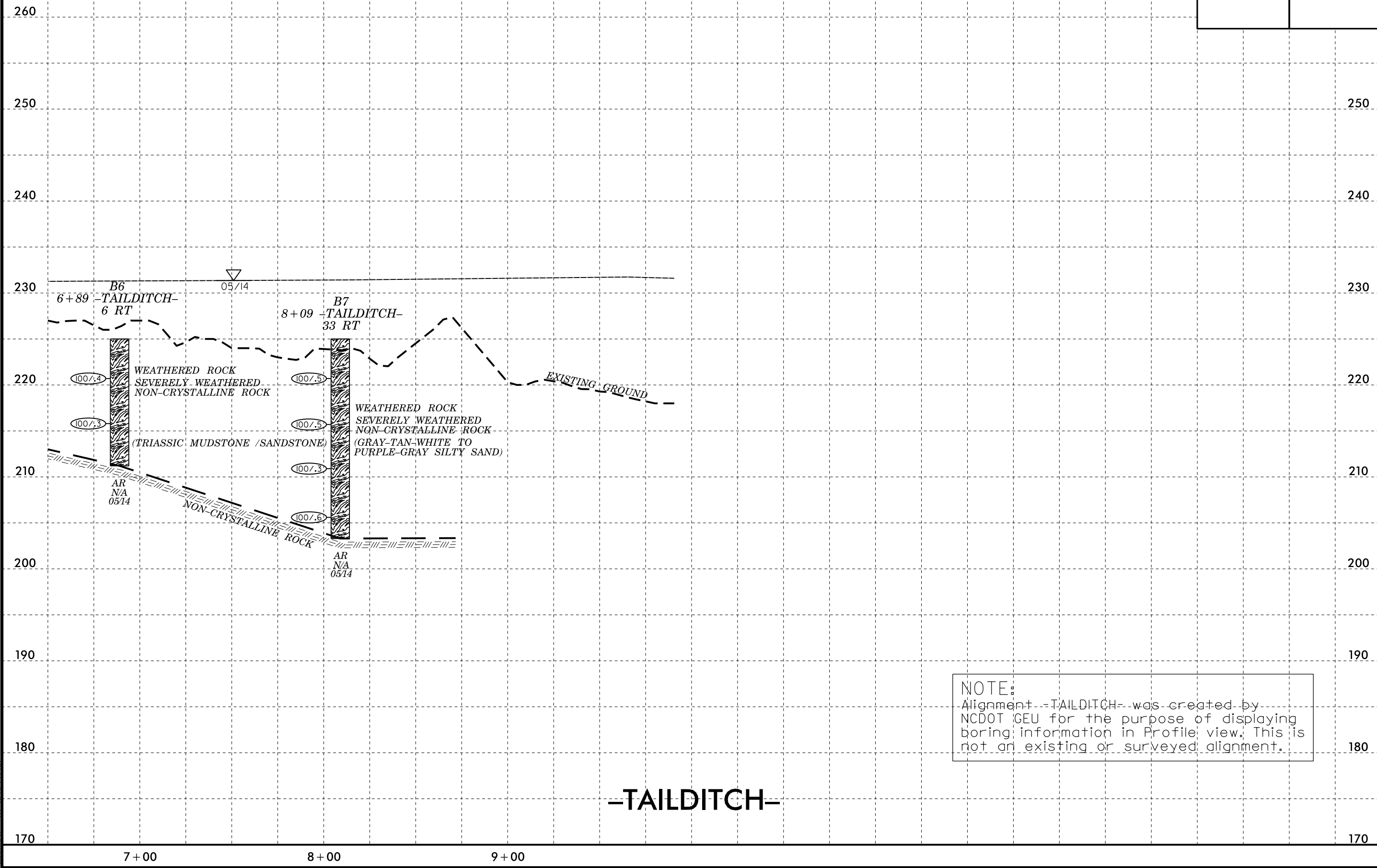
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**-TAILDITCH-**

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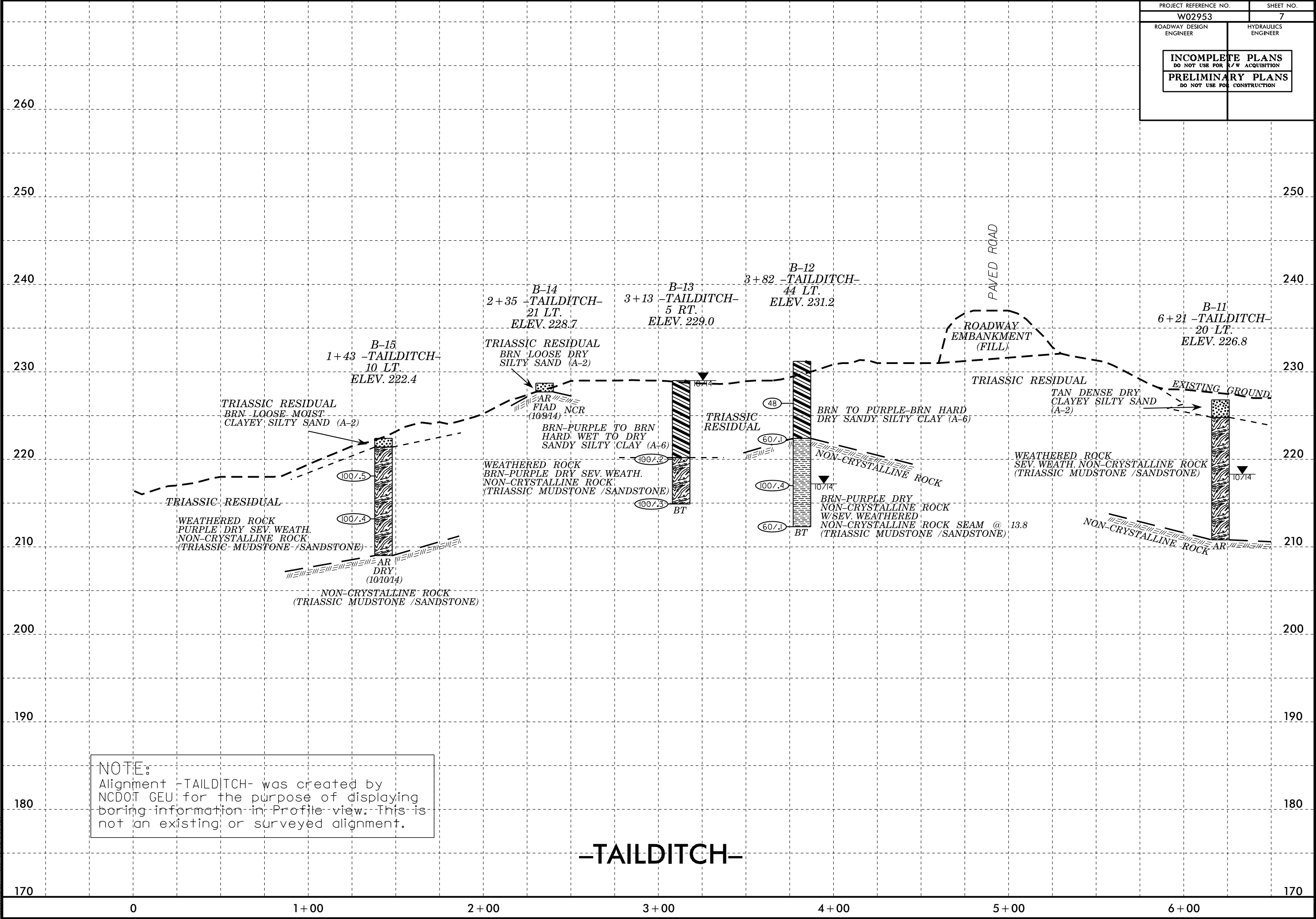
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<div>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</div> <div>PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION</div>		



NOTE:  
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boring information in Profile view. This is  
not an existing or surveyed alignment.

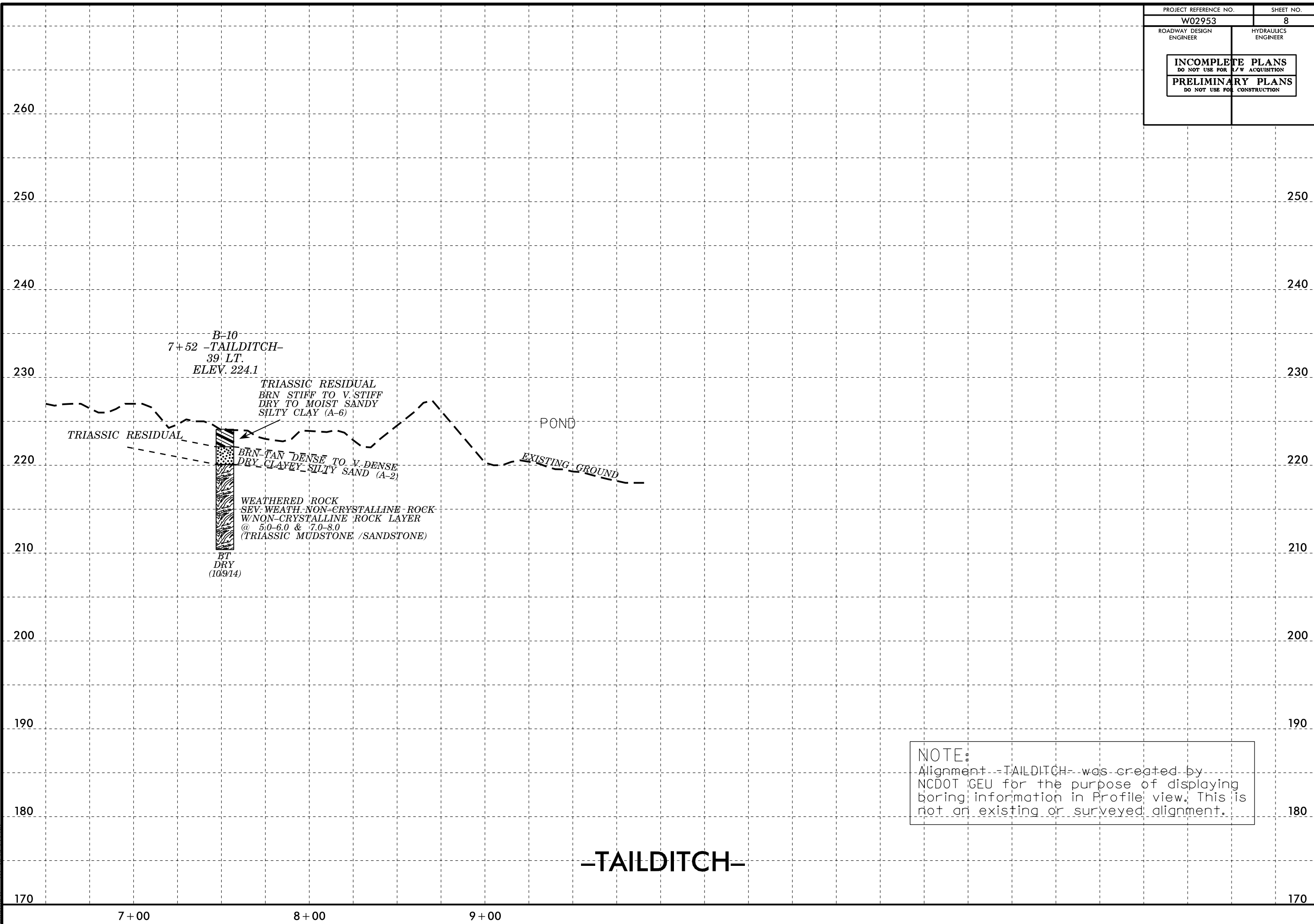
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PROJECT REFERENCE NO.		SHEET NO.
W02953		7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
<div><div>INCOMPLETE PLANS</div><div>DO NOT USE FOR R/W ACQUISITION</div></div>		
<div><div>PRELIMINARY PLANS</div><div>DO NOT USE FOR CONSTRUCTION</div></div>		



NOTE:  
Alignment -TAILDITCH- was created by  
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-TAILDITCH-



NOTE  
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NCDOT GCU for the purpose of displaying  
boring information in Profile view. This is  
not an existing or surveyed alignment.

**-TAILDITCH-**





NCDOT GEOTECHNICAL ENGINEERING UNIT  
BORELOG REPORT

WBS W02953				TIP N/A		COUNTY CHATHAM		GEOLOGIST Stickney, J. K.						
SITE DESCRIPTION US 64 over Jordan Lake								GROUND WTR (ft)						
BORING NO. B1			STATION 5+46			OFFSET 25 ft RT		ALIGNMENT -TAILDITCH-		0 HR. Dry				
COLLAR ELEV. 232.1 ft			TOTAL DEPTH 14.3 ft			NORTHING 722,470		EASTING 1,995,065		24 HR. Caved 6.8'				
DRILL RIG/HAMMER EFF./DATE HFO0072 CME-550 88% 03/19/2014						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic					
DRILLER Smith, C. L.			START DATE 05/21/14			COMP. DATE 05/21/14		SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				DEPTH (ft)
235														
230	228.9	3.2	7	14	79								232.1	GROUND SURFACE 0.0
225	223.9	8.2	88	12/0									225.1	7.0
220	218.9	13.2	100/3										217.8	14.3
Boring Terminated BY AUGER REFUSAL at Elevation 217.8 ft ON NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE)														

WBS W02953			TIP N/A			COUNTY CHATHAM			GEOLOGIST Stickney, J. K.				
SITE DESCRIPTION US 64 over Jordan Lake									GROUND WTR (ft)				
BORING NO. B2			STATION 3+78			OFFSET 18 ft RT			ALIGNMENT -TAILDITCH-			0 HR. Dry	
COLLAR ELEV. 230.8 ft			TOTAL DEPTH 24.0 ft			NORTHING 722,499			EASTING 1,994,895			24 HR. 1.9	
DRILL RIG/HAMMER EFF./DATE HFO0072 CME-550 88% 03/19/2014						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic				
DRILLER Smith, C. L.			START DATE 05/22/14			COMP. DATE 05/22/14			SURFACE WATER DEPTH N/A				
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100		MOI	
235													
230													
225	227.1	3.7	3	28	72/3	100/8					D		230.8 GROUND SURFACE 0.0
220	222.1	8.7	100/3			100/3					D		WEATHERED ROCK SEVERELY WEATHERED NON-CRYSTALLINE ROCK (GRAY-PURPLE CLAYEY SILTY SAND)
215	217.1	13.7	100/4			100/4					D		
210	212.1	18.7	100/3			100/3					D		
	207.1	23.7	100/3			100/3					D		
													Boring Terminated at Elevation 206.8 ft IN SEV. WEATH. NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE)



WBS    W02953				TIP   N/A				COUNTY   CHATHAM				GEOLOGIST   Stickney, J. K.					
SITE DESCRIPTION   US 64 over Jordan Lake												GROUND WTR (ft)					
BORING NO.   B4				STATION   1+84				OFFSET   62 ft RT				ALIGNMENT   -TAILDITCH-				0 HR.   Dry	
COLLAR ELEV.   227.5 ft				TOTAL DEPTH   24.5 ft				NORTHING   722,524				EASTING   1,994,713				24 HR.   13.0	
DRILL RIG/HAMMER EFF./DATE   HFO0072 CME-550 88% 03/19/2014								DRILL METHOD   H.S. Augers				HAMMER TYPE   Automatic					
DRILLER   Smith, C. L.				START DATE   05/22/14				COMP. DATE   05/22/14				SURFACE WATER DEPTH   N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	<div><div>MOI</div></div>	<div><div>L O G</div></div>	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
230																	
225	223.4	4.1	45	55	1	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.6	D	<div><div></div></div>	227.5 GROUND SURFACE 0.0			
						<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.4	D		WEATHERED ROCK SEVERELY WEATHERED NON-CRYSTALLINE ROCK (GRAY-PURPLE CLAYEY SILTY SAND)			
220	218.4	9.1	100	4		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.4	D					
215	213.4	14.1	100	3		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.3	D					
210	208.4	19.1	100	3		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.3	D					
205	203.4	24.1	100	4		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	100/.4	D		203.0 Boring Terminated at Elevation 203.0 ft IN SEV. WEATH. NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE) 24.5			



NCDOT GEOTECHNICAL ENGINEERING UNIT  
BORELOG REPORT






WBS W02953				TIP N/A		COUNTY CHATHAM		GEOLOGIST Stickney, J. K.						
SITE DESCRIPTION US 64 over Jordan Lake										GROUND WTR (ft)				
BORING NO. B5			STATION 93			OFFSET 74 ft RT			ALIGNMENT -TAILDITCH-		0 HR. Dry			
COLLAR ELEV. 221.2 ft			TOTAL DEPTH 23.5 ft			NORTHING 722,526			EASTING 1,994,621		24 HR. 12.9			
DRILL RIG/HAMMER EFF./DATE HFO0072 CME-550 88% 03/19/2014						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic				
DRILLER Smith, C. L.			START DATE 05/22/14			COMP. DATE 05/22/14			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100		MOI	ELEV. (ft)	DEPTH (ft)
225														
220													221.2 GROUND SURFACE 0.0	
													220.2 ALLUVIAL 1.0	
	217.9	3.3												
215			100/5											
	212.9	8.3												
210			100/4											
	207.9	13.3												
205			100/3											
	202.9	18.3												
200			100/3											
	197.9	23.3											197.7	23.5
			100/2											
			</											

WBS W02953			TIP N/A		COUNTY CHATHAM		GEOLOGIST Stickney, J. K.							
SITE DESCRIPTION US 64 over Jordan Lake								GROUND WTR (ft)						
BORING NO. B6			STATION 6+89		OFFSET 6 ft RT		ALIGNMENT -TAILDITCH-		0 HR. N/A					
COLLAR ELEV. 225.0 ft			TOTAL DEPTH 13.8 ft		NORTHING 722,483		EASTING 1,995,209		24 HR. N/A					
DRILL RIG/HAMMER EFF./DATE HFO0072 CME-550 88% 03/19/2014					DRILL METHOD H.S. Augers			HAMMER TYPE Automatic						
DRILLER Smith, C. L.			START DATE 05/22/14		COMP. DATE 05/22/14		SURFACE WATER DEPTH 1.6ft							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
230														
225														225.0 WATER SURFACE (05/22/14) 0.0
220	221.1	3.9												GROUND SURFACE 0.0
	216.1	8.9	100/4							100/4				WEATHERED ROCK SEVERELY WEATHERED NON-CRYSTALLINE ROCK
215														
			100/3							100/3				
														211.2 Boring Terminated BY AUGER REFUSAL at Elevation 211.2 ft ON NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE) 13.8

NCDOT BORE DOUBLE W02953\_GEO\_BH\_JORDANLAKE.GPJ NC\_DOT.GDT 10/17/14



UCDOT BORE DOUBLE W02953 GEO\_BH\_JORDANLAKE.GPJ NC\_DOT\_GDT 10/17/14

WBS W02953			TIP N/A			COUNTY CHATHAM			GEOLOGIST Murray, C. C.					
SITE DESCRIPTION US 64 over Jordan Lake									GROUND WTR (ft)					
BORING NO. B-10			STATION 7+52			OFFSET 39 ft LT			ALIGNMENT -TAILDITCH-			0 HR. Dry		
COLLAR ELEV. 224.1 ft			TOTAL DEPTH 13.7 ft			NORTHING 722,535			EASTING 1,995,259			24 HR. Dry		
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 81% 03/19/2014						DRILL METHOD Solid Augers			HAMMER TYPE Automatic					
DRILLER Estep, J. E.			START DATE 10/08/14			COMP. DATE 10/08/14			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	L O G	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
225														
220												D/M		224.1 GROUND SURFACE 0.0
												D		222.1 TRIASSIC RESIDUAL BRN STIFF TO V. STIFF DRY TO MOIST SANDY SILTY CLAY (A-6) 2.0
														220.1 TRIASSIC RESIDUAL BRN-TAN DENSE TO V. DENSE DRY CLAYEY SILTY SAND (A-2) 4.0
215														WEATHERED ROCK SEV. WEATH. NON-CRYSTALLINE ROCK W/ NON-CRYSTALLINE ROCK LAYER @ 5.0-6.0 & 7.0-8.0 (TRIASSIC MUDSTONE / SANDSTONE)
														210.4 Boring Terminated at Elevation 210.4 ft IN SEV. WEATH. NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE) 13.7

UCDOT BORE DOUBLE W02953 GEO\_BH\_JORDANLAKE.GPJ NC\_DOT\_GDT 10/17/14

WBS W02953				TIP N/A		COUNTY CHATHAM				GEOLOGIST Murray, C. C.						
SITE DESCRIPTION US 64 over Jordan Lake										GROUND WTR (ft)						
BORING NO. B-12				STATION 3+82				OFFSET 44 ft LT				ALIGNMENT -TAILDITCH-		0 HR. Dry		
COLLAR ELEV. 231.2 ft				TOTAL DEPTH 18.9 ft				NORTHING 722,553				EASTING 1,994,926		24 HR. 14.0		
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 81% 03/19/2014								DRILL METHOD H.S. Augers				HAMMER TYPE Automatic				
DRILLER Estep, J. E.				START DATE 10/09/14				COMP. DATE 10/09/14				SURFACE WATER DEPTH N/A				
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
235																
230																
	227.4	3.8				15	24	24								231.2 GROUND SURFACE 0.0
225																
	222.4	8.8				60/0.1									222.4 TRIASSIC RESIDUAL BRN TO PURPLE-BRN HARD DRY SANDY SILTY CLAY (A-6) 8.8	
220																
	217.4	13.8				100/0.4									NON-CRYSTALLINE ROCK BRN-PURPLE DRY NON-CRYSTALLINE ROCK W/ SEV. WEATH. NON-CRYSTALLINE ROCK SEAM @ 13.8 (TRIASSIC MUDSTONE / SANDSTONE)	
215																
	212.4	18.8				60/0.1									212.3 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 212.3 ft IN NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE) 18.9	

WBS W02953				TIP N/A		COUNTY CHATHAM		GEOLOGIST Murray, C. C.							
SITE DESCRIPTION US 64 over Jordan Lake								GROUND WTR (ft)							
BORING NO. B-14				STATION 2+35		OFFSET 21 ft LT		ALIGNMENT -TAILDITCH-		0 HR. FIAD					
COLLAR ELEV. 228.7 ft				TOTAL DEPTH 1.0 ft		NORTHING 722,589		EASTING 1,994,778		24 HR. N/A					
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 81% 03/19/2014						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic						
DRILLER Estep, J. E.				START DATE 10/09/14		COMP. DATE 10/09/14		SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
230															
														</	





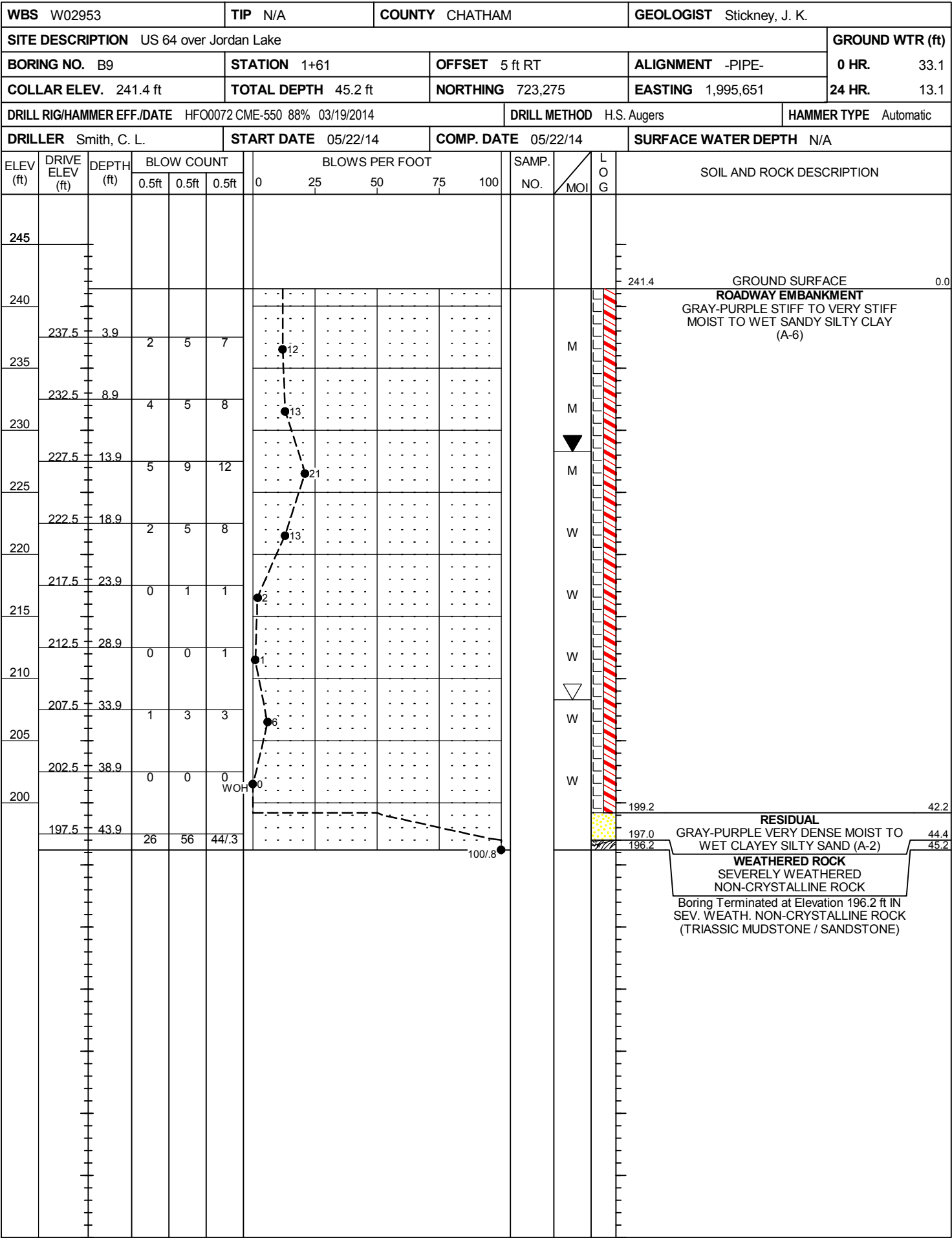
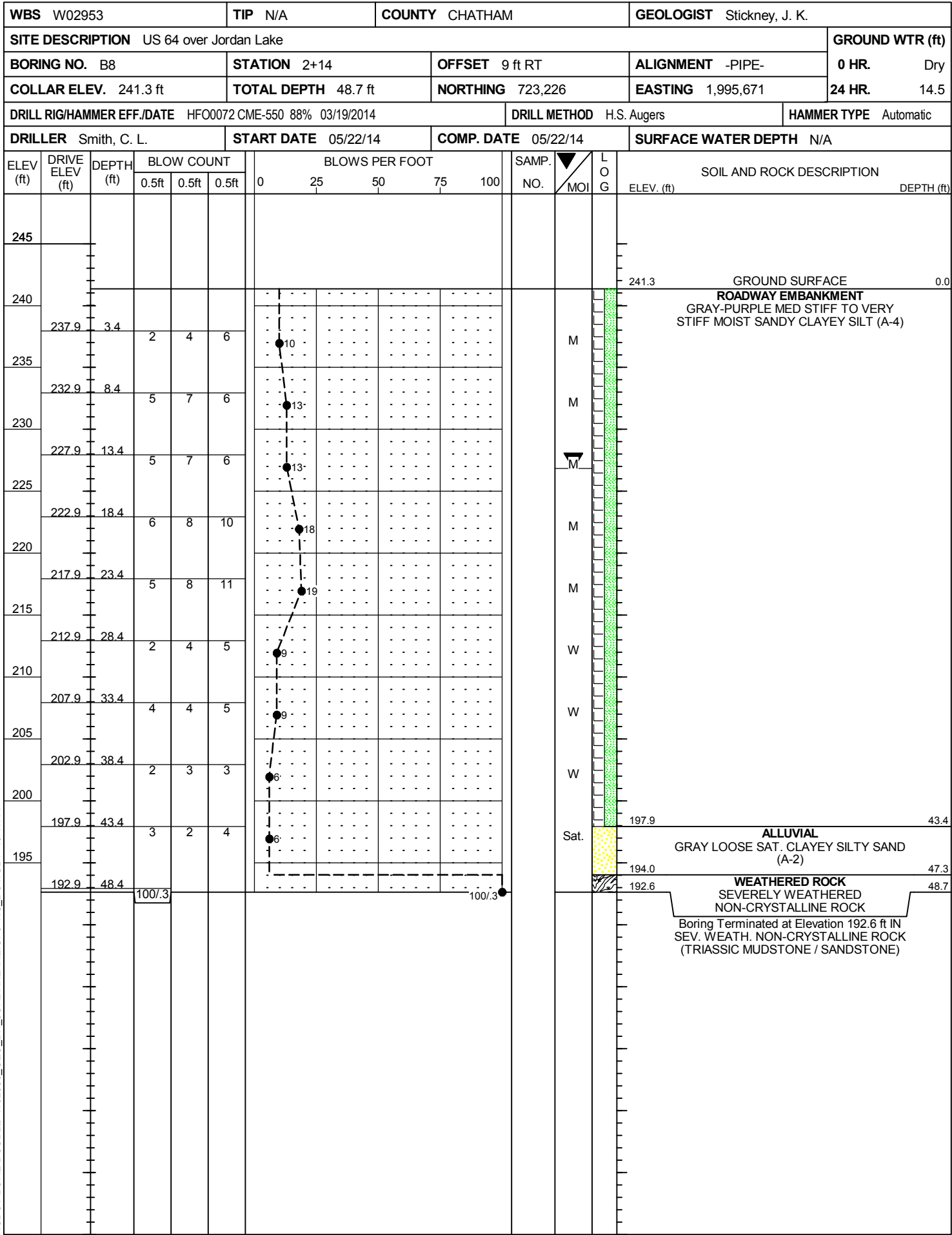
NCDOT GEOTECHNICAL ENGINEERING UNIT  
BORELOG REPORT

WBS W02953		TIP N/A		COUNTY CHATHAM		GEOLOGIST Murray, C. C.					
SITE DESCRIPTION US 64 over Jordan Lake						GROUND WTR (ft)					
BORING NO. B-15		STATION 1+43		OFFSET 10 ft LT		ALIGNMENT -TAILDITCH-					
COLLAR ELEV. 222.4 ft		TOTAL DEPTH 13.4 ft		NORTHING 722,602		EASTING 1,994,683					
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 81% 03/19/2014				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic					
DRILLER Estep, J. E.		START DATE 10/09/14		COMP. DATE 10/09/14		SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT		SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100	ELEV. (ft) DEPTH (ft)
225											
220	218.6	3.8									222.4 GROUND SURFACE 0.0
											221.4 TRIASSIC RESIDUAL 1.0
215	213.6	8.8									BRN LOOSE MOIST CLAYEY SILTY SAND (A-2)
210											WEATHERED ROCK
											PURPLE DRY SEV. WEATH.
											NON-CRYSTALLINE ROCK (TRIASSIC
											MUDSTONE / SANDSTONE)
											209.0 Boring Terminated BY AUGER REFUSAL at Elevation 209.0 ft ON NON-CRYSTALLINE ROCK (TRIASSIC MUDSTONE / SANDSTONE) 13.4

NCDOT BORE DOUBLE W02953\_GEO\_BH\_JORDANLAKE.GPJ NC\_DOT.GDT 10/17/14



NCDOT GEOTECHNICAL ENGINEERING UNIT  
BORELOG REPORT



NCDOT BORE DOUBLE W02953\_GEO\_BH\_JORDANLAKE.GPJ NC\_DOT.GDT 10/17/14